

Patent Claims

1. Compressed chewing gum tablet (37) comprising a chewing gum center (38) fully or partly encapsulated by a barrier layer (39) selected from the group of lubricants, anti-adherents and glidants or combinations thereof,

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said gum center (38) comprising a compression of gum base granules (32) and chewing gum additives (33),

10 said gum base granules (32) having a moderated tackiness.

2. Compressed chewing gum tablet according to claim 1, wherein said moderated tackiness being obtained by means of at least one natural resin incorporated in at least a part of the gum base granules (32).

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3. Compressed chewing gum tablet according to claim 1 or 2, wherein the compressed chewing gum tablet comprises about 3 % to 50 % by weight of natural resins, preferably about 4% to 30% by weight.

20 4. Compressed chewing gum tablet according to any of the claims 1 to 3, wherein the compressed chewing gum tablet comprises about 0.5% to 30% by weight of elastomers, preferably about 5% to 25% by weight.

25 5. Compressed chewing gum tablet according to any of the claims 1 to 4, wherein the compressed chewing gum tablet comprises about 0.1 % to 15 % by weight of flavoring agents, preferably about 0.8 % to 5 % by weight

6. Compressed chewing gum tablet according to any of the claims 1 to 5, wherein the natural resins provides an improved and sticky texture of the tablet.

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7. Compressed chewing gum tablet according to any of the claims 1. to 6, said barrier layer comprises e.g. lubricants, anti-adherents and glidants.

8. Compressed chewing gum tablet according to any of the claims 1 to 7,
wherein the barrier layer comprises magnesium stearate.

- 5 9. Compressed chewing gum tablet according to any of the claims 1 to 8,
wherein said barrier layer comprises metallic stearates, hydrogenated vegetable oils,
partially hydrogenated vegetable oils, polyethylene glycols, polyoxyethylene
monostearates, animal fats, silicates, silicates dioxide, talc, magnesium stearates,
calcium stearates, fumed silica, powdered hydrogenated cottonseed oils,
10 hydrogenated vegetable oils, hydrogenated soya oil and mixtures thereof.

10. Compressed chewing gum tablet according to any of the claims 1 to 9,
wherein the gum center is substantially free of lubricants, anti-adherents and glidants.

- 15 11. Compressed chewing gum tablet according to any of the claims 1 to 10,
wherein the gum center comprises wax.

12. Compressed chewing gum tablet according to any of the claims 1 to 11,
wherein the gum center is substantially free of wax.

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13. Compressed chewing gum tablet according to any of the claims 1 to 12,
wherein said barrier layer is provided during the manufacturing of the chewing gum
tablet.

- 25 14. Compressed chewing gum according to any of the claims 1 to 13, wherein
said natural resin comprises rosin esters

15. Compressed chewing gum according to any of the claims 1 to 14, wherein said
natural resin comprises glycerol esters of partially hydrogenated rosins, glycerol
30 esters of polymerised rosins, glycerol esters of partially dimerised rosins, glyccrol
esters of tally oil rosins, pentaerythritol esters of partially hydrogenated rosins,

methyl esters of rosins, partially hydrogenated methyl esters of rosins or pentaerythritol esters of rosins.

16. Compressed chewing gum according to any of the claims 1 to 15, wherein said
5 chewing gum additives comprises sweeteners in the amount of from about 5 to about 95% by weight of the chewing gum, more typically about 20 to about 80% by weight such as 30 to 60% by weight of the gum.

17. Compressed chewing gum according to any of the claims 1 to 16, wherein at least
10 a part of the flavoring agents has been teared into the gum base previous to compression.

18. Compressed chewing gum according to any of the claims 1 to 17, wherein said
15 chewing gum additives comprises active ingredients.

19. Compressed chewing gum according to any of the claims 1 to 18, wherein at least
a part of said active ingredients been teared into the gum base previous to compression.

20. Compressed chewing gum according to any of the claims 1 to 19, wherein said
20 chewing gum additives comprises active ingredients.

21. Compression chewing gum granulate comprising about 5 to 80 % by weight of at
least one natural resin, preferably 10 to 45 % by weight and being substantially free
25 of lubricants, anti-adherents, and glidants or combinations thereof.

22. Compression chewing gum granulate according to claim 21,
wherein the gum base granulate comprises at least one flavor compound.

23. Compression chewing gum granulate according to claim 21 or 22,
30 wherein said at least one flavor compound has been teared into the gum base.

24. Compression chewing gum granulate according to any of the claims 21 to 23,
said natural resin comprises rosin esters

25. Compression chewing gum granulate according to any of the claims 21 to 24,
5 wherein said natural resin comprises glycerol esters of partially hydrogenated rosins,
glycerol esters of polymerised rosins, glycerol esters of partially dimerised rosins,
glycerol esters of tall oil rosins, pentaerythritol esters of partially hydrogenated
rosins, methyl esters of rosins, partially hydrogenated methyl esters of rosins or
pentaerythritol esters of rosins.

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26. Compression chewing gum granulate according to any of the claims 21 to 25,
wherein said plasticizer comprises approximately 0.5 to about 35 weight percent of
the chewing gum granulate.

15 27. Compression chewing gum granulate according to any of the claims 21 to 26,
wherein said gum base granulate comprises active ingredients.

28. Method of providing a compressed chewing gum comprising the steps of

- 20 - mixing at least one elastomer and at least one plasticizer into a homogenous gum
base,
- said gum base comprising about 5% to 75% by weight of natural resin,
- granulating the gum base,
- blending the granulated gum base (32) with chewing gum additives (33)
25 - depositing a barrier layer (L1, L2; 39) selected from the group of lubricants, anti-
adherents and glidants or combinations thereof on at least a part of a gum center
formed from a formation of granulate and
- compressing the mixture into a tablet.

30 29. Method of providing a compressed chewing gum according to claim 28,
whereby at least a part of the gum base being premixed with flavor.

30. Method of providing a compressed chewing gum according to claim 28 or 29, whereby said gum base additives comprising active ingredients.

31. Method of providing a compressed chewing gum according to any of claims 28 to 30,

whereby the barrier layer comprises metallic stearates, hydrogenated vegetable oils, partially hydrogenated vegetable oils, polyethylene glycols, polyoxyethylene monostearates, animal fats, silicates, silicates dioxide, talc, magnesium stearates, calcium stearates, fumed silica, powdered hydrogenated cottonseed oils, hydrogenated vegetable oils, hydrogenated soya oil and mixtures thereof.

32. Chewing gum according to any of the claims 1 to 20, wherein the chewing has a water content of less than 2.0 %, preferably less than 1.5% by weight.

33. Granulate according to any of the claims 21 to 27, wherein the chewing has a water content of less than 2.0 %, preferably less than 1.5% by weight.